

Special Issue

Structural Health Monitoring and Smart Disaster Prevention

Message from the Guest Editors

With rapid urbanization, the maintenance and management of large complex structures need to be more robust. Therefore, structural health monitoring has become an important research direction in the field of engineering. Structural health monitoring technology has been widely used in various structural types, such as high-rise buildings, long-span bridges, underground spaces, and so on. Structural health monitoring includes collecting real-time or regular data on structural response; analyzing the data to predict potential defects; assessing the state of structural performance; and developing maintenance or repair plans. The rapid development of computer technology makes artificial intelligence technology become increasingly mature, and artificial intelligence plays an increasingly important role in disaster prevention and reduction. Through applying AI effectively, the accuracy and timeliness of disaster warning and monitoring can be greatly improved, the decision-making effect of post-disaster reconstruction and assessment can be optimized, better social networks and information services can be provided, and the safety of people's lives and property can be better guaranteed.

Guest Editors

Dr. Hongjuan Chen

Dr. Xiaojiang Liu

Prof. Dr. Zhao-Dong Xu

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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